Quelle Technischer Kundendienst 037.7531

BESTELL-NR.	0377531
GERAETEBEZEICHNUNG	UNIV.-MUSIK-CENTER
WARENGATTUNG	652
AUSFUEHRUNGS-NR.	001
GERAETEBESCHREIBUNG	MIT BOXEN
PRIVILEG	VTCF 3095
LIEFERANTEN-NR.	141400
PREIS	749.00
KATALOG	894
GARANTIEZEIT	6
KD-SEKTOR	R
HEIM/BRINGE	WERKSTATT
BETREUUNG	EIGEN
KOSTENTRAEGER	EIGEN
REPARATURFAEHIG	JA

Technische Unterlage

Quelle Technischer Kundendienst

035.2856

BESTELL-NR.	0352856
GERAETEBEZEICHNUNG	UNIV.-STEREO-TURM
WARENGATTUNG	659
AUSFUEHRUNGS-NR.	001
GERAETEBESCHREIBUNG	
PRIVILEG	VTCF 3095
LIEFERANTEN-NR.	141400
PREIS	699.00
KATALOG	902
GARANTIEZEIT	6
KD-SEKTOR	R
HEIM/BRINGE	WERKSTATT
BETREUUNG	EIGEN
KOSTENTRAEGER	EIGEN
REPARATURFAEHIG	JA

ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
1				
2			DIESER STEREO-TURM BESTEHT AUS	
3				
4			POWER-PACK 037.753.1 (5700)	
5			RACK 035.284.9	
			ENDE	

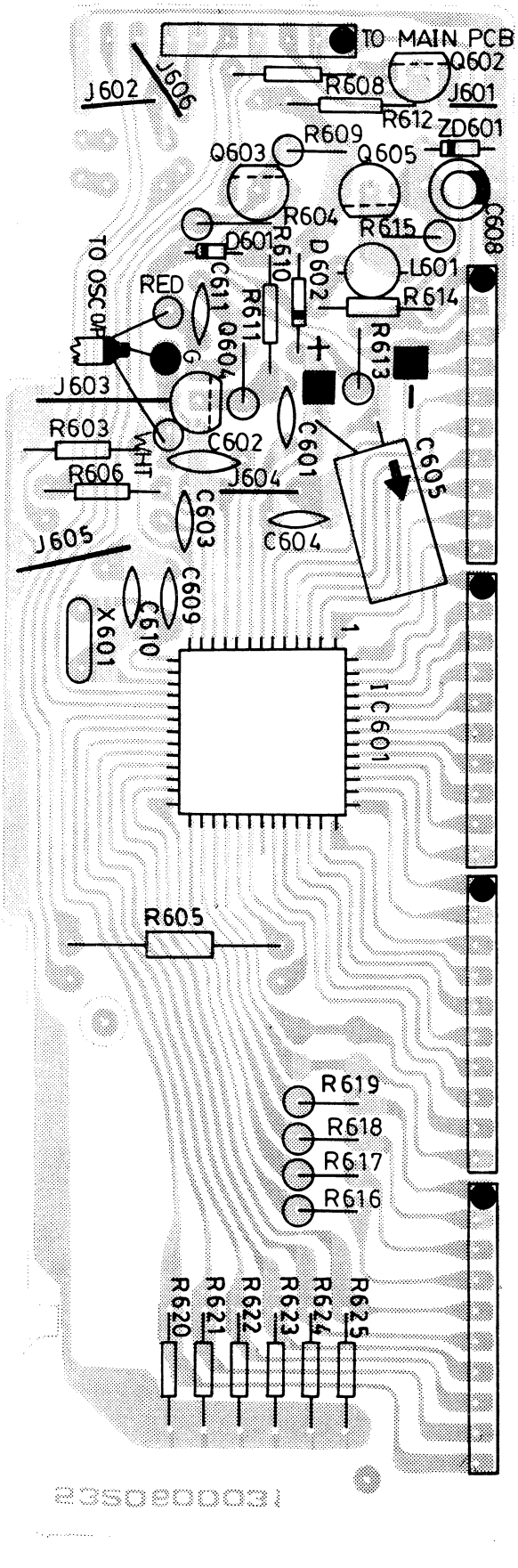
6700-451/1184

Großversandhaus Quelle, Gustav Schickedanz KG.
Kundendienstzentralleitung Ulmenstraße 52 **Nürnberg**
Nachdruck nicht gestattet
Änderungen vorbehalten
F/S 90 Feb. 90
Bei allen Reparaturen sind die gültigen Sicherheitsvorschriften zu beachten!

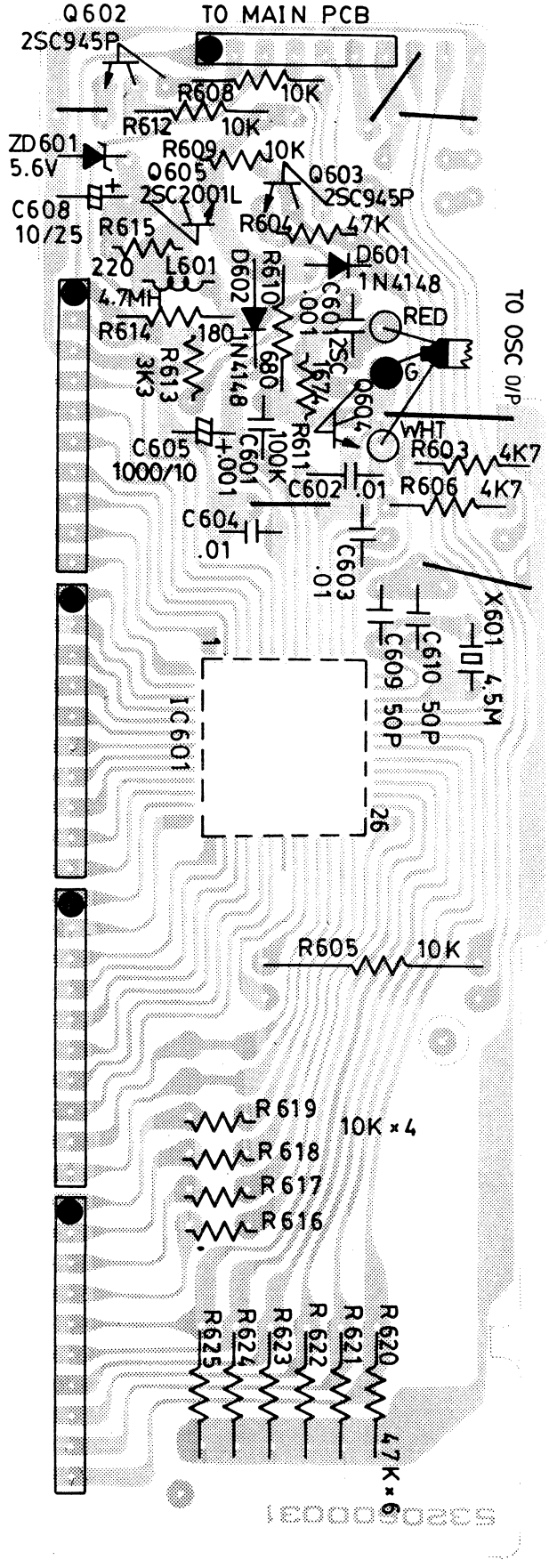
ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
166				
167			ELEKTRISCHE TEILE CD :	
168				
169			CD-PLATINE KPL.	745 993 6
170			DISPLAY LTC 5828 PAT	745 038 0
171	D101,102		Z-DIODE HZS 7,5	733 447 7
172	D103,104		DIODE 1 N 4148	175 540 4
173	D105		ZENERDIODE UZ 6,8 B	922 823 0
174	D106		Z-DIODE RD 4,7	921 586 4
175	D107-110		DIODE 1 N 4002	921 523 7
176	D301-303		DIODE 1 N 4148	175 540 4
177	IC01		IC TDA 5708	745 366 5
178	IC02		IC TDA 5709	745 367 3
179	IC03		IC TCA 0372 DP2	745 368 1
180	IC04,09,10		IC NJM 4560 D	966 658 7
181	IC05		IC MAB 8441P/107	745 369 9
182	IC06		IC SAA 7210	745 370 7
183	IC07		IC UPD 41416 C-20	745 371 5
184	IC08		IC TDA 1543	745 372 3
185	IC11		IC 7805 U	929 535 3
186	IC12		IC 7905	954 475 0
187	IC111		IC M 5450 B7	745 034 9
188	S6-16		TAKTSCHALTER	745 030 7
189	T101...		TRANSISTOR BC 337 16 ERSETZT ET-NR. 175 723 6	175 716 0
190	T102...		TRANSISTOR BC 546 B ERSETZT ET-NR. 175 954 7	923 701 7
191	T104...		TRANSISTOR BC 327 B ERSETZT ET-NR. 922 965 9	175 861 4
192	T106...		TRANSISTOR BC 556 B ERSETZT ET-NR. 175 955 4	945 328 3
193	T109...		TRANSISTOR BF 450	175 929 9
194	X101		QUARZ 6.0 MHZ	959 016 7
195	X102		QUARZ 11.2896 MHZ	745 373 1
196				
197			CD-MECHANIK :	
198				
199			CD-MECHANIK KPL.	745 051 3
200	101		SCHLITTEN	746 000 9
201	104		PLATTENAUFNAHME	745 999 3
202	106		RIEMEN	745 994 4
203	118		PLATTENHALTER	745 998 5
204	119		FEDER	745 995 1
205	127		LASERABTASTEINHEIT CDM4	746 002 5
206	128,502		GRUND-CHASSIS	745 997 7
207	131		MOTOR	745 399 6
208	132,133		SCHALTHEBEL	745 996 9
209			TRANSPORTSICHERUNG	746 001 7
210				
211			PLATTENSPIELER :	
212				
213			KERAMIK-SYSTEM	731 084 0
214			NADELTRAEGER SAPHIR	731 083 2
215				
216	1		TONARMCLIP	745 056 2
217	2		TONARMHEBEL	742 691 9
218	3,4,16		ENDABSCHALTHEBEL KPL.	742 687 7
219	5		MOTORSCHALTER KPL.	743 654 6
220	7		PUCK REDUZIERST	177 551 9
221	9		PLATTENTELLER	745 057 0
222	11		TONARM	745 058 8
223	12		TONARMLAGER	745 059 6
224	17		TELLERACHSE	745 061 2
225	18		MOTORPULLY	745 062 0
226	21		LAGERACHSE FUER TONARM	745 063 8
227	24		ZUGSTANGE	745 064 6
228	27		RIEMEN	745 065 3
229	28		MOTOR SHU-2R	745 066 1
230	33		SCHIEBESCHALTER	745 067 9
231	39		SPRENGRING	998 939 3
232	47		DRUCKKLOTZ FUER SCHARNIER	745 068 7
233	48		LAGERACHSE FUER SCHARNIER	745 069 5
234	49		SCHARNIER	745 070 3
235	50		ABDECKHAUBE	745 071 1
236	52		FEDER	745 072 9

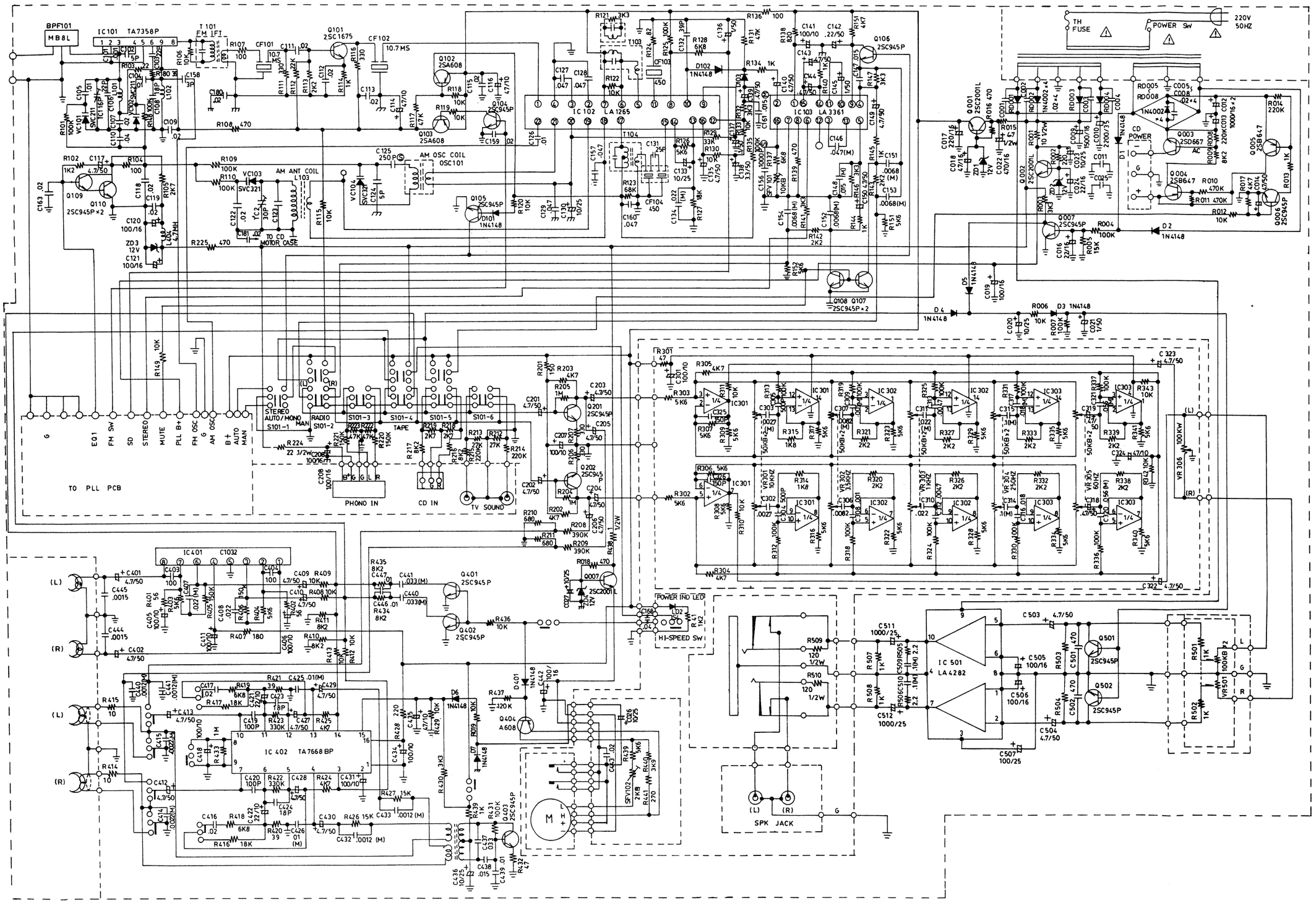
ENDE

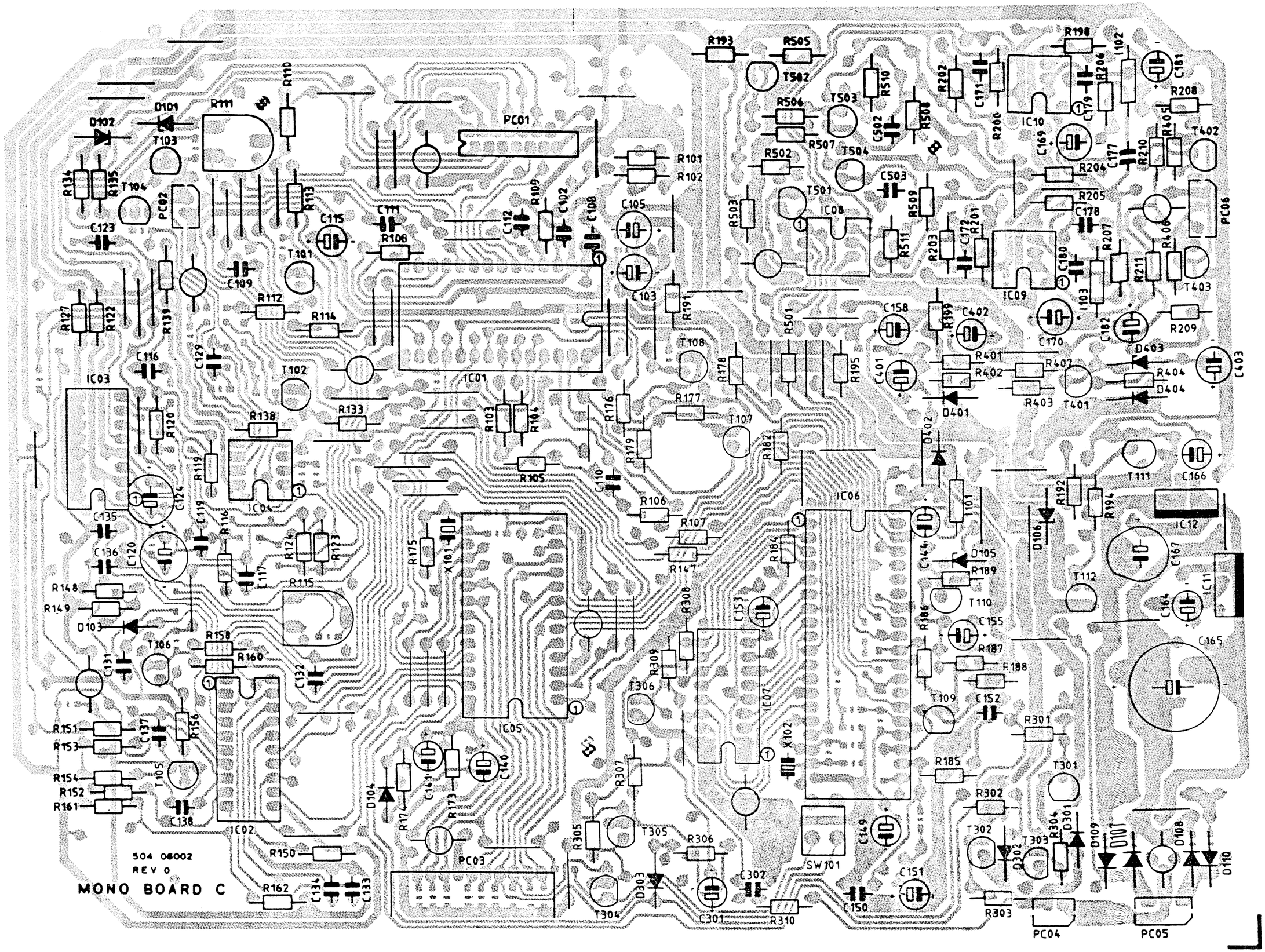
PLL PCB TOP VIEW



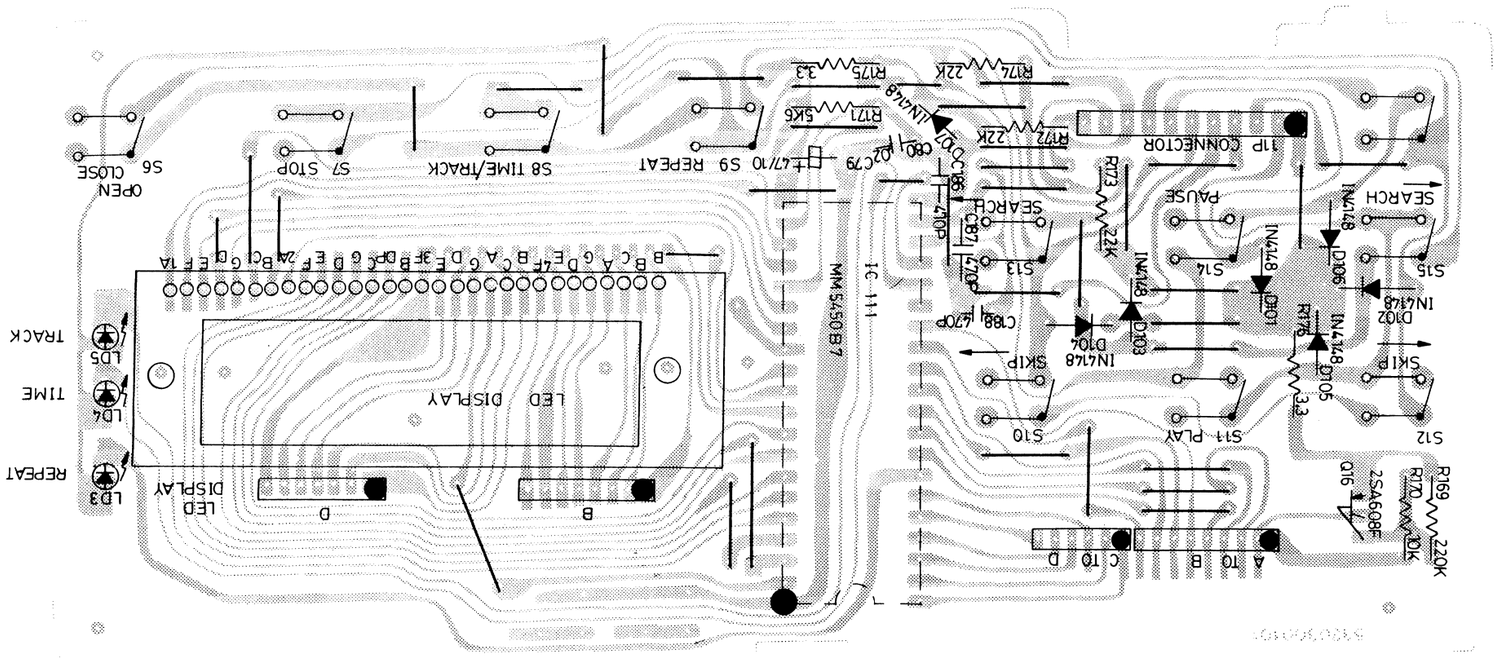
PLL PCB BOTTOM VIEW




BPF101
MB8L
IC101 TA7358P
T101 FM IFT
Q101 2SC1675
CF101
CF102 10.7MS
Q102 2SA608
Q103 2SA608
Q104 2SC945P
IC102 LA1265
IC103 LA3361
T103
T104
CF103
CF104
D101 1N4148
D102 1N4148
D103
AM OSC COIL OSC101
AM ANT COIL L103
VC103 SVC321
VC104 SVC321
TO CD MOTOR CASE
Q105 2SC945P
Q106 2SC945P
Q107 Q108 2SC945P×2
Q109 Q110 2SC945P×2
TH FUSE
POWER SW
220V 50HZ
Q001 2SC2001L
Q002 2SC2001L
Q003 2SD667
Q004 2SB647
Q005 2SB647
Q006 2SC945P
Q007 2SC945P
CD POWER
D1 1N4148
D2 1N4148
D3 1N4148
D4 1N4148
D5 1N4148
ZD1 12V
ZD2 12V
ZD3 12V
TO PLL PCB
PHONO IN
CD IN
TV SOUND
STEREO AUTO/MONO S101-1
RADIO S101-2
TAPE
S101-3
S101-4
S101-5
S101-6
IC301 IC302 IC303 LA4282
IC401 C1032
IC402 TA7668BP
Q201 2SC945P
Q202 2SC945P
Q401 2SC945P
Q402 2SC945P
Q404 A608
Q501 2SC945P
Q502 2SC945P
D401 1N4148
D6 1N4148
D7 1N4148
POWER IND LED
HI-SPEED SW
SPK JACK
IC 501 LA 4282
VR 306
VR305 60HZ
VR304 150HZ
VR303 250HZ
VR302 350HZ
VR301 10KHZ
SFV101
SFV102
M


504 06002
REV 0
MONO BOARD C

CD CONTROL BOTTOM VIEW



AM SECTION

CONTROL SETTING

FUNCTION SELECTOR SWITCH ..... MW VOLUME ..... MAX.

Circuit Alignment	Instrument Connection	Step	Gen. Freq.	Dial Setting	Adjusament
IF	AM Signal Gen. (IF SWEEP) Radiated Signal To IC 102 PIN 19 Output Meter(ACVM) Connect Across Speaker Voice Coil.	1	450 KHz (Mod. 30%)	Tuning Gang Fully Open	T104 Adjust for Max. Output
		2			Repeat Until No Further Improvement Can Be Made
OSC	Output Meter (DCVM)	3	522 KHz (Mod. 30%)	Tuning Gang Fully Closed	OSC101 (AM OSC Coil) Adjust For VCO 1.65V -2.0V Output at TP-2
		4	1620KHz (MOD 30%)	Tuning Gang Fully colsed	To Check TP-2 VCO at 7.8V-8.3V
RF Tracking	AM Signal Gen. Radiated Signal Output Meter (ACVM) Connect Across Speaker Voice Coil	5	603 KHz (Mod. 30%)	Tune to Signal	AM ANT. Coil Adjust Coil On Ferrite Core for Max. Output
		6	1404 KHz (Mod. 30%)	Tune to Signal	AM Antenna Trimmer TC2 Adjust for Max Output
		7			Repeat Steps 5&6

CASSETTE ELECTRICAL ADJUSTMENTS

INSTRUMENTS REQUIRED : 1. VTVM
2. TEST TAPE MTT-114,MTT-111 OR EQUIVALENT

Item	Signal Source	Output Indicator	Mode	Adjustment	Specification
Head Azimuth adjustment	Insert 10KHz Test Tape (MTT-114)	Connect VTVM To Output Terminal	Playback	Head Azimuth Adjustment Screw. (See Fig.4)	Maximum (L/R Channel)

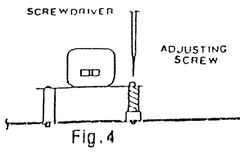


Fig.4

FM SECTION

CONTROL SETTING

FUNCTION SELECTOR SWITCH ..... FM VOLUME ..... MAX.

Circuit Alignment	Instrument Connection	Step	Gen. Freq.	Dial Setting	Adjustment
IF	FM IF Sweep Gen. Connect Across T101 Rri and ground	1	10.7 MHz (Dev. 22.5 KHz)	Tuning Gang Fully Open	T102, T103, Adjust for Max. Symmetrical Response "S" Curve
	Oscilloscope Connect Across LA3361 2PIN ground.	2			Repeat Step 1
OSC	Output Meter (DCVM)	3	87.5MHz (Dev. 22.5 KHz)	Tuning Gang To 87.5MHz	(OSC Coil) L102 Adjust DCVM 1.65V -2.0V at TP-2
		4	108 MHz (Dev. 22.5 KHz)	Tuning Gang To 108 MHz	To Check The TP-2 VCO at 7.8-8.3V
		5			Repeat Steps 3 & 4
RF Tracking	FM Signal Gen. Connect FM ANT and ground Output Meter (ACVM) Connect Across Speaker Voice Coil	6	90 MHz (Dev. 22.5 KHz)	Tune to Signal	(RF Coil) L101 Adjust For Max. Output
		7	106 MHz (Dev. 22.5 KHz)	Tune to Signal	RF Trimmer Adjust TC1 For Max. Output
		8			Repeat Steps 6 & 7

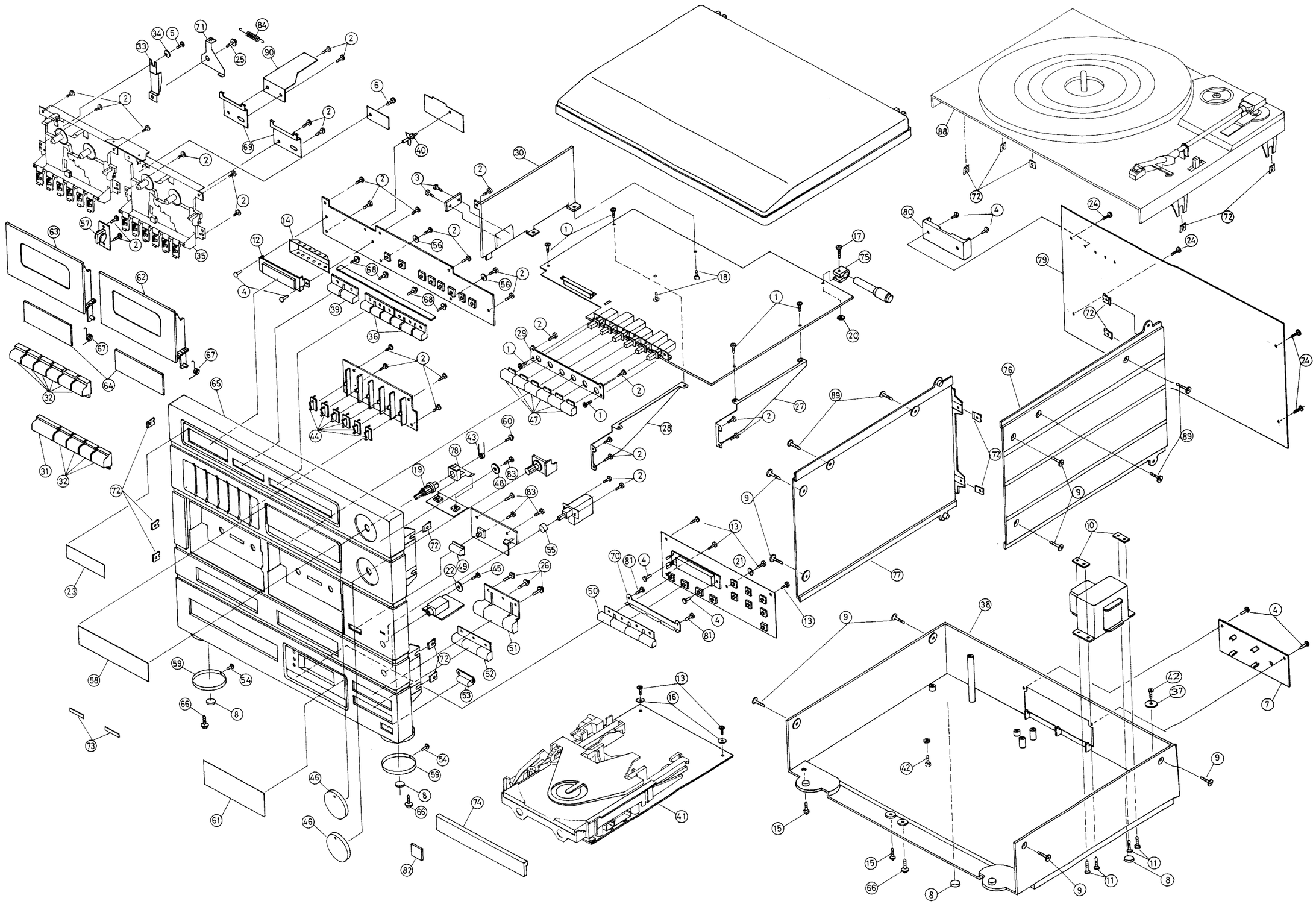
FM MPX SECTION

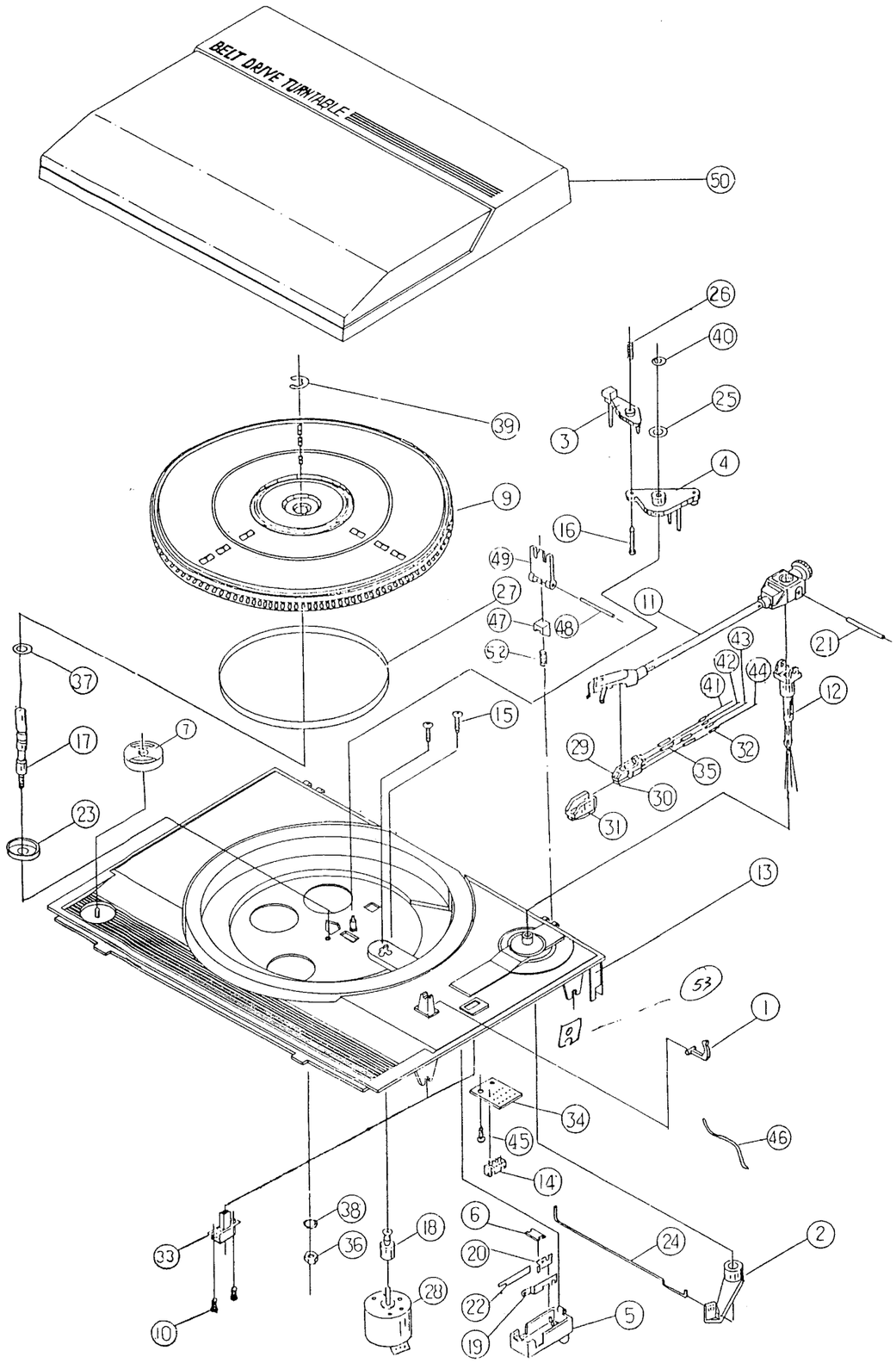
Circuit Alignment	Instrument Connection	Step	Gen. Freq.	Dial Setting	Adjustment
STEREO MPX	Connect Frequency Counter to IC – 102 Pin 12 . Stereo Signal Generator Connects to FM Signal Generator Which Connect To FM Ant. And Ground.		STEREO SIGNAL at 98 MHz	Tune to Signal	SFV101 for 19 KHz and Stereo Lamp on

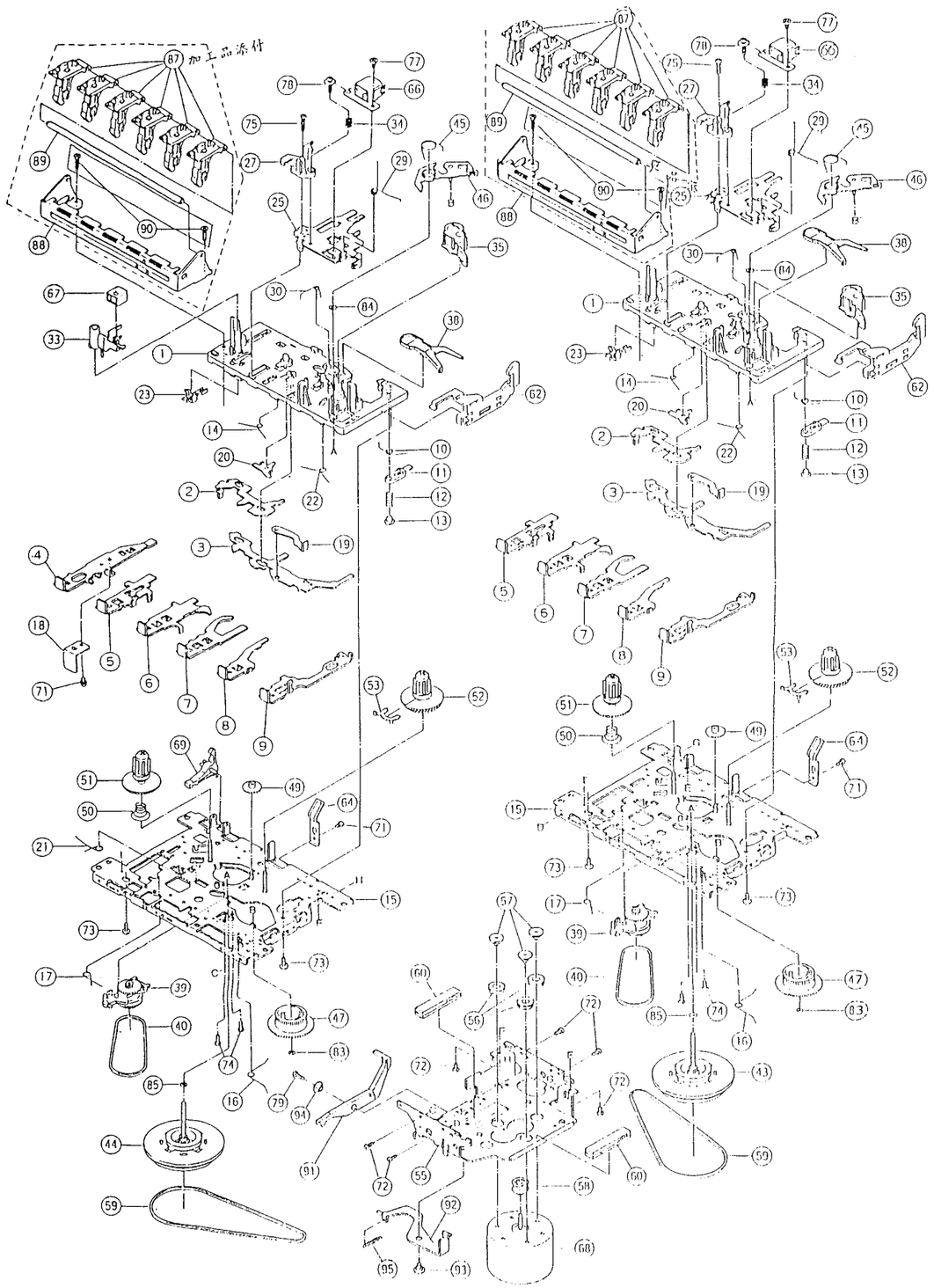
INSTRUMENT REQUIRED

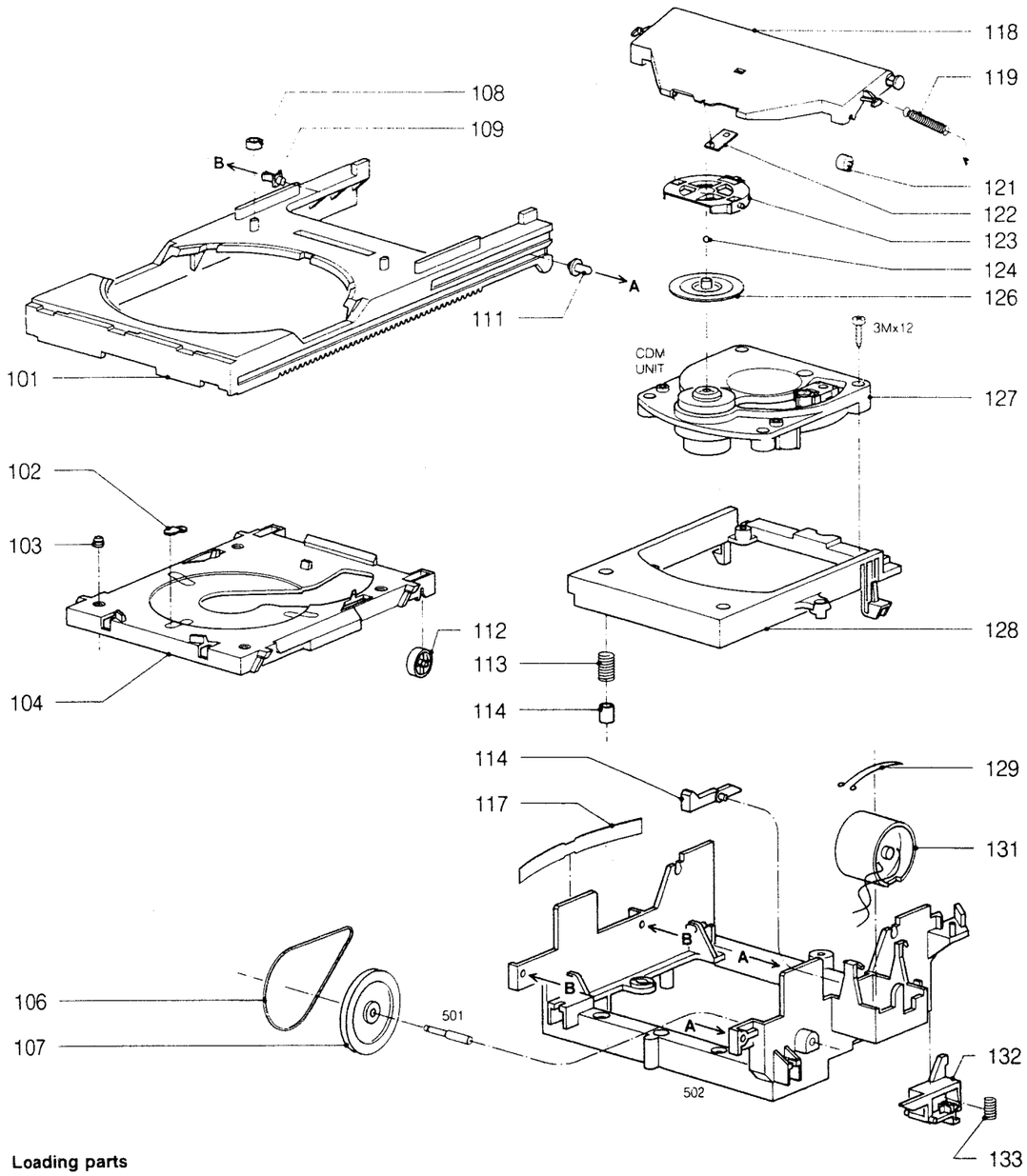
1. Output Meter (ACVM)
2. IF Sweep Generator (AM/FM)
3. Standard Signal Generator (AM/FM) & Antenna Loop
4. Oscilloscope
5. Frequency Counter
6. Stereo Signal Generator

EXPLODED VIEW (CABINET)




BELT DRIVE TURNTABLE


加工品添付



Loading parts

101	4822 444 50603	119	4822 492 32883
102	4822 325 50176	121	4822 528 90639
103	4822 325 50177	122	4822 466 92257
104	4822 466 92251	123	4822 402 61207
106	4822 358 10115	124	4822 520 40177
107	4822 522 32359	126	4822 530 80503
108	4822 532 51518	127	4822 691 30209
109	4822 402 61081	128	4822 402 61196
111	4822 402 61132	129	4822 492 63746
112	4822 528 90638	131	4822 361 20998
113	4822 492 51902	132	4822 402 50244
114	4822 466 61587	133	4822 492 51935
116	4822 402 61107		
117	4822 492 63659		
118	4822 444 60568		

IX. Alignment Procedure

THIS INFORMATION IS FOR SERVICE USE ONLY

NOTE 1: This alignment must be done only if or the monoboard or the CDM is replaced for service purpose.

NOTE 2: The given measurement data are only for alignment after service. When checking monokits for these data, different values can be found. This is normal and gives no reason for malfunction.

NOTE 3: The used test disc must be a Sony type 4 (YEDS 18).

A. Turn the laser variable resistor R111 in a position that the total resistance of R111 plus R110 is 1 kohm.

Turn the focus variable resistor R115 in the middle position.

B. Switch the power ON and verify that the display light up.

C. Place the test disc in the tray. The test disc must be clean (no finger prints) and may not be damaged.

D. Connect a DC voltmeter over resistor R101, switch the power on, press the PLAY button and check the reading of the DC voltmeter.

E. While the monokit is playing, adjust the laser current with variable resistor R111 at a value of 50 mV + or - 2 mV displayed by the laser current meter.

F. Switch the power of and connect a meter over capacitor C117, switch the power on, press the PLAY button and check the reading of the DC voltmeter.

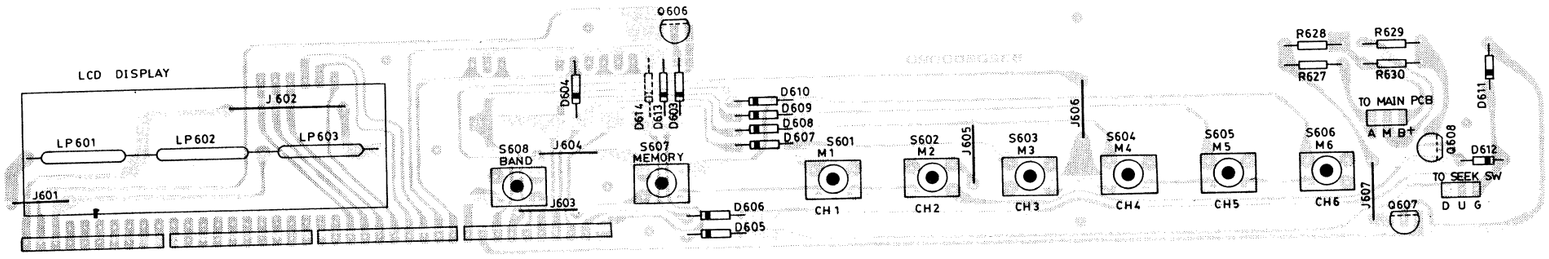
G. While the monokit is playing, adjust the focus offset with variable resistor R115 at a value of +400 mV +/- 20 mV.

REMARK: it is normal that the focus readout is not stable, but is varying within certain range.

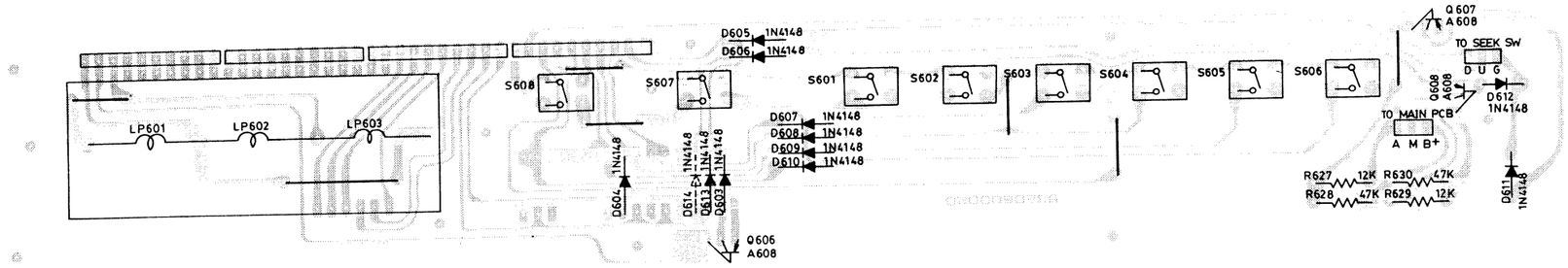
ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
1				
2			LAUTSPRECHERBOX KPL.	745 054 7
3				
4			GEHAEUSE UND BEDIENTEILE :	
5				
6	4		PLASTIKSTOPPEN 3X6,5 MM	745 024 0
7	7		BUCHSENANSCHLUSSPLATTE	745 016 6
8	8		FUSS	745 018 2
9	12		HALTER FUER DISPLAY	745 001 8
10	19		ABSTIMMACHSE	745 060 4
11	23		ABDECKUNG,LCD-RDF	745 006 7
12	31		KNOPF,TAPE,BREIT	744 998 6
13	32		KNOPF,TAPE,SCHMAL	744 999 4
14	33		HEBEL, A	745 021 6
15	35		CASSETTENLAUFWERK	745 052 1
16	36		KNOPFLEISTE,1-6	744 996 0
17	38		UNTERTEIL	745 014 1
18	39		KNOPF,BAND-MEMORY	744 997 8
19	40		ABSTANDSBOLZEN	745 000 0
20	41		CD-MECHANIK KPL.	745 051 3
21	44		KNOPF,SCHIEBEREGLER	744 988 7
22	46		KNOPF,VOLUME,UP/DOWN	744 989 5
23	47		KNOPF,FUNKTION	744 990 3
24	49		KNOPF,HI-SPEED	744 991 1
25	50		KNOPF,CD,OPEN-REPEAT	744 992 9
26	51		KNOPF,CD,PLAY	744 993 7
27	52		KNOPF,CD,PAUSE	744 994 5
28	53		KNOPF,CD,PROGRAMM	744 995 2
29	54		PLASTIKSTOPPEN 3X4,5 MM	745 023 2
30	55		KNOPF,POWER	744 987 9
31	57		DAEMPFER	745 003 4
32	58		ABDECKPLATTE,TV-MODE	745 005 9
33	59		RING FUER FUSS	745 004 2
34	61		ABDECKUNG,LCD-CD	745 007 5
35	62		CASSETTENFACH, R TAPE 1	745 009 1
36	63		CASSETTENFACH, L TAPE 2	745 010 9
37	64		FENSTER FUER CASSETTENFACH	745 011 7
38	65		FRONTBLENDE	745 015 8
39	67		FEDER FUER AUSWURF	745 020 8
40	71		HEBEL B	745 022 4
41	74		ABDECKUNG,CD-SCHLITTEN	745 008 3
42	76		SEITENTEIL,RECHTS	745 012 5
43	77		SEITENTEIL,LINKS	745 013 3
44	79		RUECKWAND	745 017 4
45	80		BATTERIEBEHAELTER	745 002 6
46	82		GUMMI-PLAETTCHEN	745 019 0
47	88		PLATTENSPIELER KPL.	745 053 9
48				
49			CASSETTENLAUFWERK :	
50				
51			CASSETTENLAUFWERK	745 052 1
52	2		SCHALTHEBEL	742 618 2
53	3		SCHALTSCHIENE	742 619 0
54	4		TASTENSCHIEBER,REC.	742 620 8
55	5		TASTENSCHIEBER,PLAY	742 621 6
56	6		TASTENSCHIEBER,REW.	742 622 4
57	7		TASTENSCHIEBER,F.F.	742 623 2
58	8		TASTENSCHIEBER,STOP	742 624 0
59	9		TASTENSCHIEBER,PAUSE	742 625 7
60	10		PROFILFEDER	742 626 5
61	11		RASTER,PAUSE	742 627 3
62	12		DRUCKFEDER,PAUSERAST	742 628 1
63	13		STOPFEN,PAUSERAST	742 629 9
64	14		PROFILFEDER	742 630 7
65	16		PROFILFEDER	742 631 5
66	17		PROFILFEDER	742 632 3
67	18		SCHALTFEDER,A/W	734 309 8
68	19		AUSLOESEHEBEL	742 633 1
69	20		STOPPER	742 634 9
70	21		PROFILFEDER	742 635 6
71	22		PROFILFEDER	742 636 4
72	23		MIKRO-SCHALTER	999 543 2
73	27		KOPFTRAEGER,A/W	742 637 2
74	29		PROFILFEDER	742 638 0
75	30		PROFILFEDER	742 639 8
76	33		KOPFTRAEGER,LOESCHMAGNET	742 640 6
77	34		FEDER	999 548 1
78	35		GA-ROLLE	742 641 4
79	38		FUEHLHEBEL	742 642 2

ZEILE	POSITION	SYM	BEZEICHNUNG	ET-NUMMER
80	39		RUTSCHKUPPLUNG	742 643 0
81	40		RIEMEN 0,9 X 35MM	998 345 3
82	43		SCHWUNGRAD 1	742 644 8
83	44		SCHWUNGRAD 2	742 645 5
84	45		PROFILFEDER	742 646 3
85	46		PLATTE,ZAHNRAD	742 647 1
86	47		ZAHNRAD	742 648 9
87	49		ZAHNRAD,F.F.	742 649 7
88	50		FEDER	999 560 6
89	51		ABWICKELTELLER	742 650 5
90	52		AUFWICKELTELLER	742 651 3
91	53		SCHALTFUEHLER	742 652 1
92	58		PULLEY 2 8,5 8,5 10,0(PLASTIK)	742 768 5
93	59		ANTRIEBSRIEMEN	999 561 4
94	60		BUERSTE FUER RIEMEN	742 371 8
95	62		AUSWURFHEBEL	743 463 2
96	64		FEDER	999 564 8
97	65		W-KOPF	740 892 5
98	66		A/W-KOPF	740 891 7
99	67		LOESCH-MAGNET	730 603 8
100	68		MOTOR,SHU-2L	745 055 4
101	69		AUFN.SPERRE	742 654 7
102	83		SICHERUNGSSCHEIBE 1,2X3X0,25 MM	986 045 3
103	84		SICHERUNGSSCHEIBE 1.4XX4X0.3 MM	946 940 4
104	85		SICHERUNGSSCHEIBE 2 MM	987 250 8
105	87		HEBEL	999 570 5
106	89		STANGE FUER KNOEPFE	999 571 3
107	91		SCHALTHEBEL (B)	742 655 4
108	92		SCHALTHEBEL (A)	742 656 2
109				
110			ELEKTRISCHE TEILE RDF. U. TB :	
111				
112			NETZTRAFO	745 050 5
113	KH		KLINKENBUCHSE 6.3 MM STEREO	745 031 5
114	CD		DISPLAY LTC 5828 PAT	745 038 0
115	RDF		DISPLAY LCDT 342005	745 039 8
116			NETZSCHALTER	745 027 3
117	A/W		A/W-SCHIEBESCHALTER	745 026 5
118	BPF101		FM-EINGANGSFILTER BPM B8L	745 035 6
119	CF101,102		KERAMIK-FILTER FM	953 825 7
120	CF103		AM-KERAMIKFILTER SFU 450 CUN	745 037 2
121	CF104		AM-KERAMIKFILTER SFZ 450 B	745 036 4
122	IC101		IC TA 7358 P	999 409 6
123	IC102		IC LA 1265	730 032 0
124	IC103		IC LA 3361	952 038 8
125	IC111		IC M 5450 B7	745 034 9
126	IC301-303		IC UPC 1032 H	951 047 0
127	IC401		IC BA10324	722 856 2
128	IC402		IC TA 7668 AP	986 680 7
129	IC501		IC LA 4282	745 033 1
130	IC601		IC UPD 1708 AG-220	744 524 0
131	L103		FERRITANTENNE MIT SPULE	745 049 7
132	LD2		LED SR 535 D	733 237 2
133	LD3-5		LEUCHTDIODE FLV 117	925 780 9
134	LP601-603		LAMPE 12 V 30 MA	745 032 3
135	OSC101,AM		AM-OSZILLATORSPULE	745 047 1
136	OSC401,TB		LOESCHOSZILLATORSPULE	745 048 9
137	Q001,002		TRANSISTOR 2 SC 2001K	948 045 0
138	Q003		TRANSISTOR 2 SD 667	951 735 0
139	Q004,005		TRANSISTOR 2 SB 647	954 096 4
140	Q006,007		TRANSISTOR 2 SC 945	175 739 2
141	Q007,605		TRANSISTOR 2 SC 2001K	948 045 0
142	Q16,404		TRANSISTOR 2 SA 608 D	175 802 8
143	Q101		TRANSISTOR 2 SC 1675	948 043 5
144	Q102,103		TRANSISTOR 2 SA 608 D	175 802 8
145	Q104-603		TRANSISTOR 2 SC 945	175 739 2
146	Q604		TRANSISTOR 2 SC 1674	948 046 8
147	Q607,608		TRANSISTOR 2 SA 608 D	175 802 8
148	RD001-004		DIODE 1 N 4002	921 523 7
149	S4,SPEED		TASTSCHALTER	745 025 7
150	S6-16		TAKTSCHALTER	745 030 7
151	S101		TASTENSATZ 6-FACH	745 028 1
152	S601-608		TAKTSCHALTER	745 030 7
153	S,SEEK		TASTSCHALTER	745 029 9
154	T		FM-ZF-FILTER 2153-400-W129	745 043 0
155	T		FM-ZF-FILTER 2231-434-W031	745 044 8
156	T		FM-ZF-FILTER 2231-434-W024	745 045 5
157	T104		AM-ZF-FILTER 2150-434-W287	745 046 3
158	VC101,102		CAP.-DIODE SVC 211	730 467 8
159	VC103,104		CAP.-DIODE SVC 321SP-D2	988 694 6
160	VR301-305		SCHIEBEREGLER 2X50KB	745 042 2
161	VR306,BAL		SCHIEBEREGLER 100KW	745 041 4
162	VR501,LAUT		DREHPOTI 2X100KB	745 040 6
163	X601		QUARZ 4.5000 MHZ	733 845 2
164	ZD1-4,103		ZENERDIODE ZE 12	176 804 3
165	ZD601		Z-DIODE RD 5,6 EB1	965 944 2

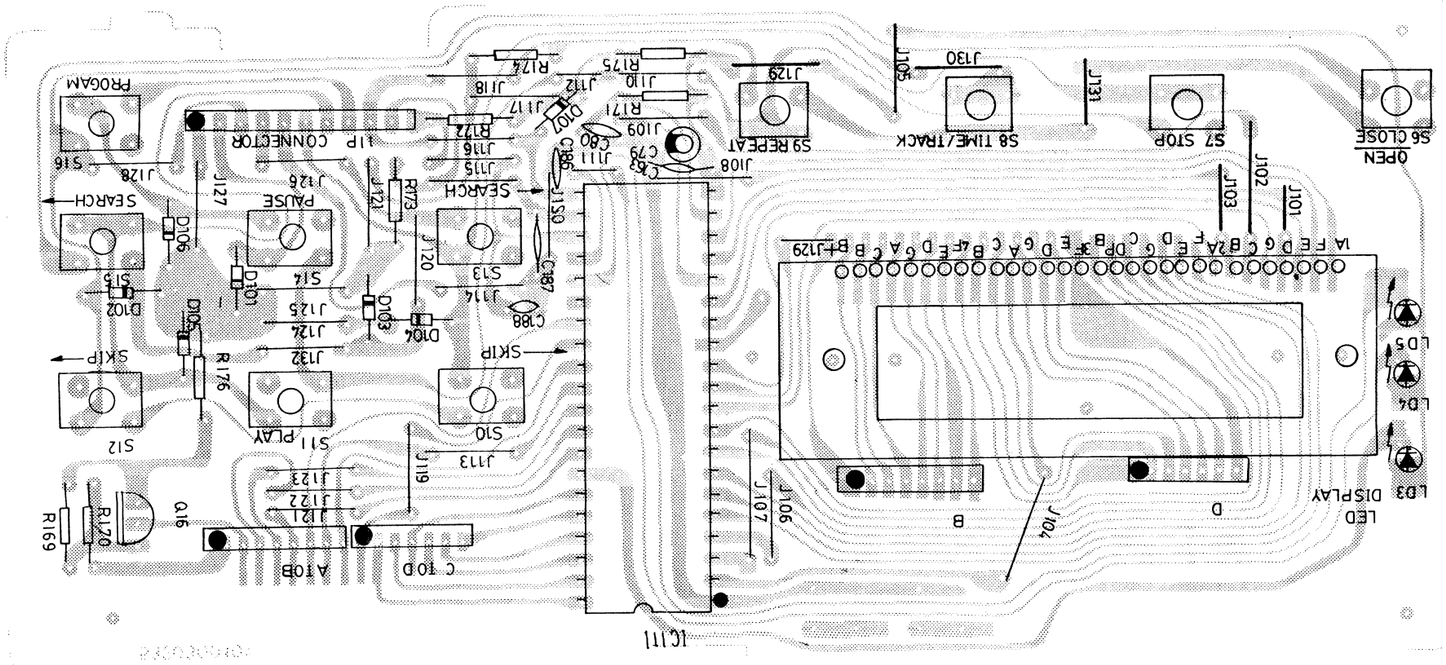
PLL COUNTROL PCB TOP VIEW



PLL COUNTROL PCB BOTTOM VIEW



CD CONTROL TOP VIEW



TRANSFORMER INPUT

AUDIO OUTPUT LEFT RIGHT

TRAY MOTOR

TRAY SWITCH

CONTROL BOARD

MAB8441P/T107

SAA7210

UPD41416C-20

TDA1543

TDA5708

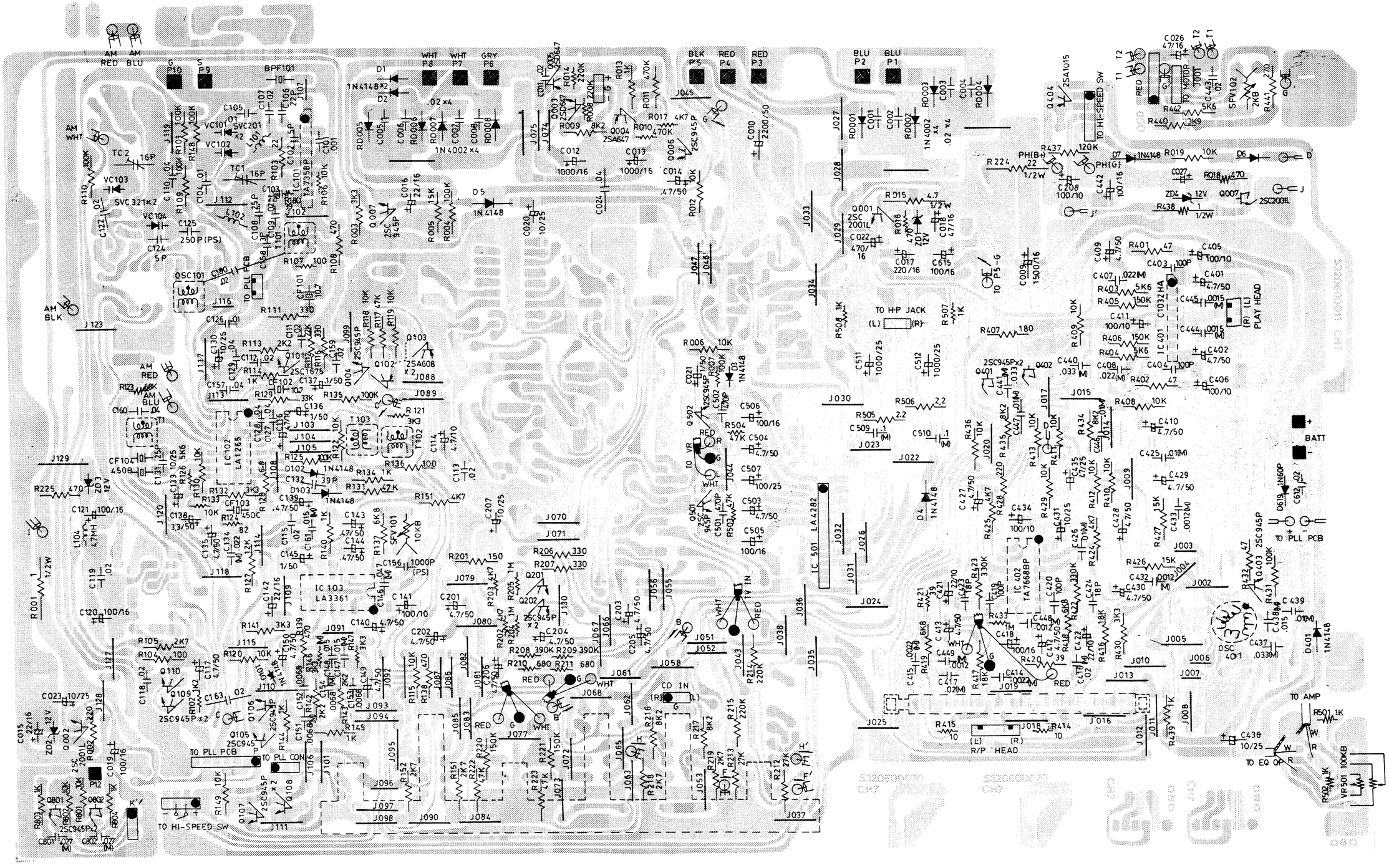
TDA5709

SPINDLE MOTOR

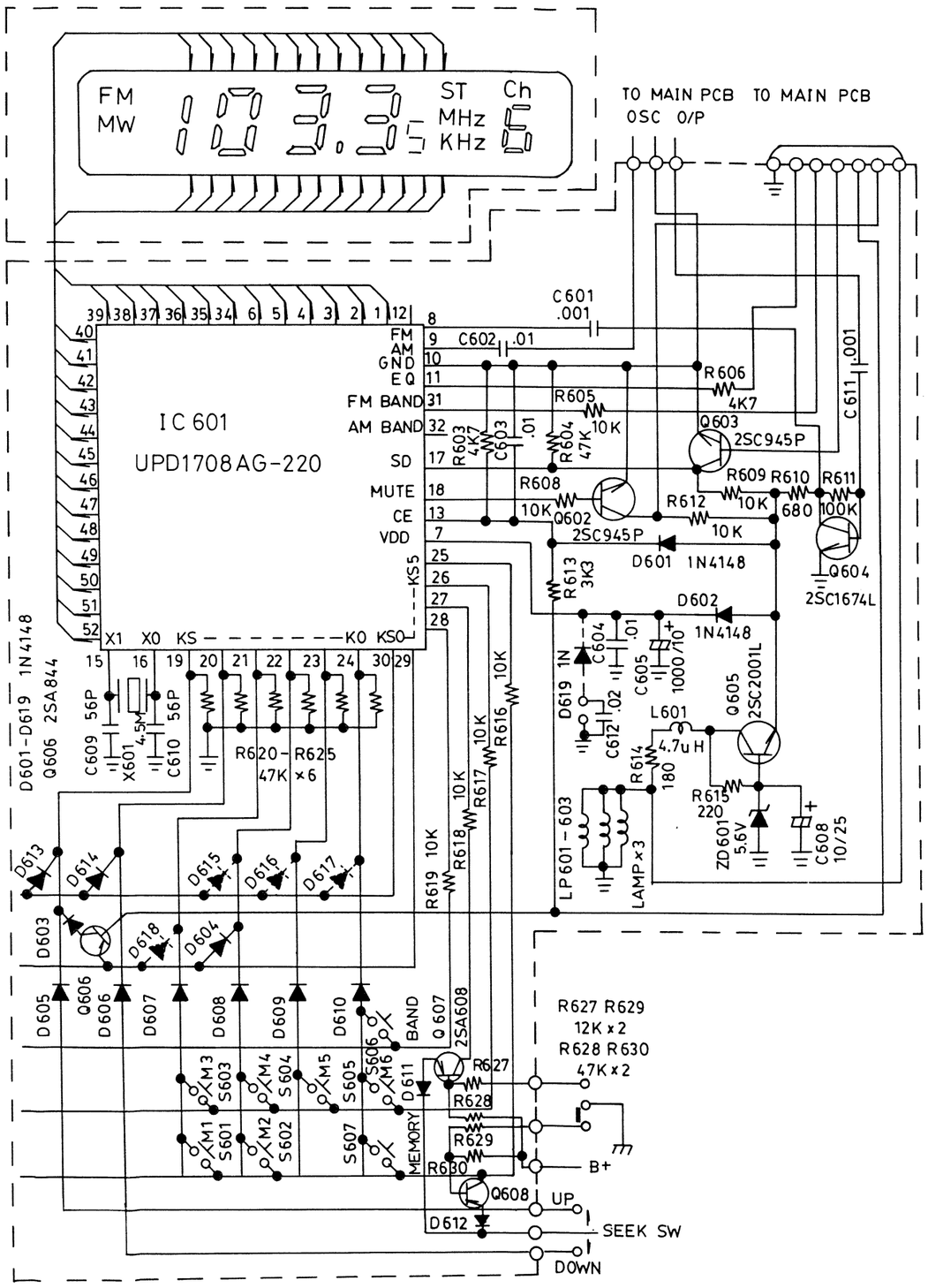
CDM4 LASER AND MOTOR IN/OUT

ALL • MARKED COMPONENTS ARE CHIP COMPONENTS

MAIN PCB BOTTOM VIEW



SCHEMATIC DIAGRAM



EQ PCB BOTTOM VIEW